

SFUND RECORDS CTR
2377277

**ICF Consulting / Laboratory Data Consultants** 

Environmental Services Assistance Team, Region 9

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**MEMORANDUM** 

TO:

Matt Mitguard, Site Assessment Manager

States, Tribes & Site Assessment Section, SFD-9-1

THROUGH:

Rose Fong, ESAT Project Officer

Quality Assurance (QA) Office, PMD-3

FROM:

Doug Lindelof, Data Review and QA Document Review Task Manager

Environmental Services Assistance Team (ESAT)

ESAT Contract No.: 68-W-01-028

Task Order: B01

Technical Direction No.: B0105187 Amendment 2

DATE:

July 23, 2003

SUBJECT:

Revision of Data Validation Report for Case 31519, SDG Y0SJ2 (May 19, 2003)

Attached are revised validity comments and Tier 3 Table 1A resulting from ESAT Region 9 review of the following analytical data:

SITE:

Continental Heat Treating

SITE ACCOUNT NO.:

09 ZZ LA00

CERCLIS ID NO.:

CAD095631719

CASE NO.:

31519

SDG NO.:

Y0SJ2

LABORATORY:

A4 Scientific, Inc. (A4)

ANALYSIS:

Volatiles

SAMPLES:

4 Water Samples

**COLLECTION DATE:** 

March 19, 2003

**REVIEWER:** 

Kendra DeSantolo, ESAT/Laboratory Data Consultants (LDC)

The attached validity comments and Table 1A reflect the analytical results expressed to significant figures according to the laboratory data package. The previous report showed results improperly rounded by the Computer-Aided Data Review and Evaluation (CADRE) automated review. Changes made to the validity comments are bolded. No other changes to the report were necessary. Please attach this report to your previous report, and any copies.

This report has been reviewed by the EPA Task Order Project Officer (TOPO) for the ESAT Contract, whose signature appears above.

If there are any questions, please contact Rose Fong (QA Program/EPA) at (415) 972-3812.

Attachment.

## Data Validation Report - Revised

Case No.:

31519

SDG No.: Y0SJ2

Site: Laboratory: Continental Heat Treating A4 Scientific, Inc. (A4)

Reviewer:

Santiago Lee, ESAT/LDC

Date:

July 23, 2003

## Revised Validity Comments (Section III of May 19, 2003 Report)

- B. The following results are qualified as nondetected and estimated due to method blank, storage blank, and equipment blank contamination, and are flagged "UJ" in Table 1A.
  - Acetone and toluene in sample Y0SJ4
  - Chloroform and bromoform in samples Y0SJ2 and Y0SJ5
  - Methylene chloride in storage blank VHBLK01
  - Chloromethane in samples Y0SJ2, Y0SJ3, and Y0SJ4

Chloromethane, methylene chloride, chloroform, and bromoform were found in method blanks and/or storage blank VHBLK01 (see Table 1A for concentrations). Acetone and toluene were found in equipment blank Y0SJ5 (see Table 1A for concentrations). Results for the samples listed above are considered nondetected and estimated (UJ) and the quantitation limits have been increased according to the blank qualification rules presented below.

No positive results are reported unless the concentration of the compound in the sample exceeds 10 times the amount in any associated blank for the common laboratory contaminants or 5 times the amount for other compounds. If the sample result is greater than the CRQL, the quantitation limit is raised to the sample result. If the sample result is less than the CRQL, the result is reported as nondetected at the CRQL.

Acetone results for samples Y0SJ2 (33  $\mu$ g/L) and Y0SJ3 (27  $\mu$ g/L) are not qualified since their concentrations exceed 10 times the amount detected in the associated equipment blank. Toluene results for samples Y0SJ2 (1.1  $\mu$ g/L) and Y0SJ3 (1.7  $\mu$ g/L) are not qualified since their concentrations exceed 5 times the amount detected in the associated equipment blank.

Although methylene chloride, 1,2,4-trichlorobenzene, and 1,2,3-trichlorobenzene were found in method blanks VBLK4N and VBLK4P (see Table 1A for concentrations), no data are qualified because these analytes were not detected in the associated samples.

A laboratory method blank is laboratory reagent water analyzed with all reagents, deuterated monitoring compounds, and internal standards and carried through the sample preparation and analytical procedures as the field samples. The laboratory method blank is used to determine the level of contamination introduced by the laboratory during analysis.

A storage blank is laboratory reagent water stored in a vial in the same area as the field samples. The storage blank is used to determine the level of contamination introduced by the laboratory during sample storage prior to analysis.

An equipment blank is clean water that has been collected as a sample using decontaminated sampling equipment. The intent of an equipment blank is to monitor for contamination introduced by the sampling activity, although any laboratory introduced contamination will also be present.

G. In the analysis of the field duplicate pair, the following outliers were obtained for the analytes listed below.

•	Y0SJ2 (D1)	Y0SJ3 (D1)	
<u>Analyte</u>	Conc., µg/L	Conc., ug/L	RPD (<25%)
Bromomethane	0.45L	<b>0.50</b> U	N/A
1,1-Dichloroethene	26	18	36
cis-1,2-Dichloroethene	97 .	70	32
Cyclohexane	38	14	92
Methylcyclohexane	100	33	101
1,2-Dichloropropane	4.7	<b>0.50</b> U	N/A
Toluene	1.1	1.7	43
Tetrachloroethene	3.7	2.5	39
Xylenes (total)	1.4	2.1	40
Isopropylbenzene	22	15	38
1,1,2,2-Tetrachloroethane	1.0	<b>0.50</b> U	N/A

A relative percent difference (RPD) value is not calculated and is presented above as "N/A" when an analyte is detected in a field duplicate sample, but is nondetected (U) at the CRQL in the associated field duplicate sample. The effect of outliers on data quality is not known.

The analysis of field duplicate samples is a measure of both field and analytical precision. Imprecision in the results of the analysis of the field duplicate pair may be due to the sample matrix, method defects, or poor sampling or analytical technique.

ANALYTICAL RESULTS
Revised Tier 3 Table 1A

Case No.: 31519

SDG No.: Y0SJ2

Site: CONTINENTAL HEAT TREATING

Lab: A4 SCIENTIFIC INC.

Reviewer: Santiago Lee, ESAT/LDC

Revision Date: July 23, 2003

QUALIFIED DATA
Concentration in ug/L

Analysis Type: Low Level Water Samples

For Volatiles

Station Location : Sample ID : Collection Date :	CHT-GW-1 Y0SJ2 03/19/2003		D1	CHT-GW-3 Y0SJ3 03/19/2003		D1	CHT-GW-2 Y0SJ4 03/19/2003			CHT-GW-4 Y0SJ5 03/19/2003		EB	Method Blank VBLK4N	(		Method Bland VBLK4P	k		Method Blank VBLK4U	,	
Dilution Factor :	1.0	Val	Com	1.0 Result	Val	Com	1.0 Result	Val	Com	1.0 Result	Val	Com	1.0 Result	Val	Com	1.0 Result	Val	Com	1.0 Result	Val	Com
Volatile Compound	Result	vai	Com		vai	Com		vai	Com	0.50U	vai	Com	0.50U	vai	Com	0.50U	vai	Com	0.50U	J	E
Dichlorodifluoromethane Chloromethane	0.50U 0.50U		В	0.50U 0.50U		В	0.50U 0.50U		В	0.50U	10:33:05	a sections	0.50U	Name of the last	DOM:	0.50U	NAME OF	100000	0.50U	J	E
	and the same of th	3	В	1.4	J	D	0.50U	7		0.50U			0.50U			0.50U			0.50U	J	E
Vinyl Chloride Bromomethane	1.1 0.45L	J	AEG	0.50U	J	EG	0.50U	1	A	0.50U	SERVICE STATE	100000	0.50U	STREET, STREET,	ninesia.	0.50U	J	E	0.50U	3	NAME OF TAXABLE PARTY.
Chloroethane	0.45L 0.28L	J	AD	0.34L	J	AD	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	DE
Trichlorofluoromethane	0.20L 0.50U	J	AD	0.50U	3	AD	0.50U	3		0.50U	3		0.50U	J		0.50U	3		0.50U	7	E
1,1-Dichloroethene	26		GH	18		GH	140		н	0.50U		-	0.50U			0.50U	2250000		0.50U	3	-
1,1,2-Trichloro-1,2,2-trifluoroethane	STORY TO PRODUCE STORY	TO BE STORE	GH	0.50U	P. (2005)	GH	0.57		G26530	0.50U	10000	1000	0.50U		accessed.	0.50U	0000	10000	0.50U		DEGG
Acetone	33	J	CD	27	J	CD	5.0U	J	BCD	2.3L	J	ACDE	State of the second second	J	CDE	5.0U	J	CD	5.0U	J	CD
Carbon Disulfide	0.50U	,	CD	0.50U	3	00	0.50U		BOD	0.50U		ACDL	0.50U	,	ODL	0.50U		00	0.50U		00
Methyl Acetate	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D
Methylene Chloride	0.50U	i	D	0.50U	1	D	0.50U	J	D	0.50U	J	D	0.19L	.1	AD	0.16L	.1	AD	0.23L	.1	AD
trans-1,2-Dichloroethene	2.2			2.3			0.40L	J	A	0.50U			0.50U		1	0.50U		7.0	0.50U		1
Methyl tert-Butyl Ether	0.50U	BOSSES	CHANGE	0.50U	2000	1	0.50U			0.50U	DECEMBER OF	100000	0.50U		Distant.	0.50U	100000	100000	0.50U	SECTION A	0000
1,1-Dichloroethane	4.6		1	5.2			7.1		-	0.50U			0.50U	7.7		0.50U			0.50U		7.5
cis-1,2-Dichloroethene	97		GH	70	geriele.	GH	13		District Co.	0.50U		Bisses.	0.50U	198	1000	0.50U	1000	<b>BISSES</b>	0.50U		Testiles .
2-Butanone	5.0U	.1	C	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C
Bromochloromethane	0.50U			0.50U			0.50U		10.36	0.50U	1000	10000	0.50U	Bisk		0.50U			0.50U		100
Chloroform	0.50U	J	В	0.50U			0.50U			0.50U	J	В	0.41L	J	A	0.26L	J	A	0.50U		
1,1,1-Trichloroethane	0.50U	MINA	PO-MAN	0.50U	RECEIPT OF	100000	0.50U	B 534	1200	0.50U		100000	0.50U	No.		0.50U	100	1000	0.50U		2550
Cyclohexane	38		GH	14	63.	GH	0.97			0.50U			0.50U			0.50U			0.50U		
Carbon Tetrachloride	0.50U	SFREE		0.50U	STATE OF		0.50U			0.50U	1000		0.50U	ESSENIE .	DE N	0.50U	100		0.50U		A STATE OF
Benzene	0.74		2000	0.80	J	F	0.15L	J	A	0.50U	4		0.50U	100		0.50U		1	0.50U		7.5
1.2-Dichloroethane	0.50U	BIE		0.50U		1000	0.50U		100	0.50U	1999		0.50U	W-14	1223	0.50U			0.50U		1
Trichloroethene	2.2	J	F	2.4	J	F	96		Н	0.50U			0.50U	1		0.50U			0.50U		793
Methylcyclohexane	100	(FEE)	GH	33	ESSE	GH	0.50U		District Control	0.50U	15559		0.50U		2000	0.50U			0.50U	BEE S	1000
1,2-Dichloropropane	4.7		G	0.50U	35	G	3.5			0.50U		1955	0.50U			0.50U	A.	1000	0.50U	1	
Bromodichloromethane	0.50U			0.50U	1000	100.23	0.50U			0.50U	1	1000	0.50U		207310	0.50U		10000	0.50U	300	10000
cis-1,3-Dichloropropene	0.50U	RELEVE.		0.50U			0.50U		100	0.50U			0.50U			0.50U	393		0.50U	100	
4-Methyl-2-pentanone	5.0U	1000	1000	5.0U	2754	100000	5.0U		199	5.0U	1773		5.0U	THE REAL PROPERTY.	2003	5.0U		1000	5.0U	J	E
Toluene	1.1	J	FG	1.7	J	FG	0.82U	J	В	0.17L	J	A	0.50U	SEE SE		0.50U			0.50U		
trans-1,3-Dichloropropene	0.50U	BESS	1000	0.50U	SHEET.	TO SERVICE	0.50U	55.3		0.50U			0.50U			0.50U			0.50U	BEFER	
1,1,2-Trichloroethane	0.50U	2019		0.50U	100		0.58	197		0.50U			0.50U			0.50U			0.50U		
Tetrachloroethene	3.7	J	FG	2.5	J	FG	100	1000	Н	0.50U	1963		0.50U	1	1000	0.50U			0.50U	THE REAL PROPERTY.	
2-Hexanone	5.0U	200		5.0U	- FY		5.0U	1	1	5.0U	133		5.0U	200		5.0U			5.0U		
Dibromochloromethane	0.50U	J	F	0.50U	36153	1000	0.50U		15.55	0.50U	FIRE		0.50U	3390		0.50U	THE REAL PROPERTY.		0.50U	200	
1,2-Dibromoethane	0.50U	J	F	0.50U			0.50U	63		0.50U		8.0	0.50U	100	1919	0.50U			0.50U	6	

Case No.: 31519

SDG No.: Y0SJ2

Revised Tier 3 Table 1A

Site: CONTINENTAL HEAT TREATING

Lab: A4 SCIENTIFIC INC.

Reviewer: Santiago Lee, ESAT/LDC

Revision Date: July 23, 2003

QUALIFIED DATA
Concentration in ug/L

Analysis Type: Low Level Water Samples

For Volatiles

Station Location : Sample ID : Collection Date : Dilution Factor :	: CHT-GW-1 : Y0SJ2 D1 : 03/19/2003 : 1.0		CHT-GW-3 Y0SJ3 D1 03/19/2003 1.0		D1	CHT-GW-2 Y0SJ4 03/19/2003		CHT-GW-4 Y0SJ5 EB 03/19/2003			Method Blank VBLK4N			Method Blank VBLK4P 1.0			Method Blank VBLK4U				
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
Chlorobenzene	0.50U		139	0.50U		900	0.50U			0.50U	300		0.50U			0.50U			0.50U		241
Ethylbenzene	14	J	F	11	J	F	0.50U			0.50U			0.50U			0.50U			0.50U		
Xylenes (total)	1.4	J	FG	2.1	J	FG	1.0	347		0.50U			0.50U			0.50U			0.50U		
Styrene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U	E.	2500
Bromoform	0.50U	J	BF	0.50U	1		0.50U			0.50U	J	В	0.38L	J	A	0.30L	J	A	0.50U		
Isopropylbenzene	22	J	FG	15	J	FG	0.50U			0.50U			0.50U			0.50U			0.50U		
1,1,2,2-Tetrachloroethane	1.0		G	0.50U		G	0.50U		100	0.50U		. 3	0.50U			0.50U			0.50U		2.7
1,3-Dichlorobenzene	0.50U		120	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,4-Dichlorobenzene	0.50U		1	0.50U		34.	0.50U			0.50U			0.50U			0.50U		1093	0.50U	S	1000
1,2-Dichlorobenzene	0.50U		0.65	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dibromo-3-chloropropane	0.50U		3/3/2	0.50U			0.50U			0.50U	100		0.50U			0.50U			0.50U		1
1,2,4-Trichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.16L	J	A	0.19L	J	A	0.50U		1200
1,2,3-Trichlorobenzene	0.50U	Specific Control	-	0.50U			0.50U	-	1	0.50U			0.20L	J	A	0.23L	J	A	0.50U	West of	

Val - Validity. Refer to Data Qualifiers in Table 1B.

Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.

CRQL - Contract Required Quantitation Llmit, N/A - Not Applicable, NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs

FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample

## ANALYTICAL RESULTS Revised Tier 3 Table 1A

Case No.: 31519 SDG No.: Y0SJ2

Site: CONTINENTAL HEAT TREATING

Lab: A4 SCIENTIFIC INC.

Reviewer: Santiago Lee, ESAT/LDC

Revision Date: July 23, 2003

QUALIFIED DATA
Concentration in ug/L

Analysis Type: Low Level Water Samples

For Volatiles

Station Location : Sample ID : Collection Date : Dilution Factor :	Storage Blank VHBLK01	k		CRQL																		
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	]
Dichlorodifluoromethane	0.50U	J	E	0.50			12.2		100										1577			ı
Chloromethane	0.20L	J	AE	0.50													H 100		7.35			ı
Vinyl Chloride	0.50U	J	E	0.50	ME				18			- 6										1
Bromomethane	0.50U			0.50																		ı
Chloroethane	0.50U	J	DE	0.50	3.2			1				1										ı
Trichlorofluoromethane	0.50U	J	E	0.50														1000				ı
1,1-Dichloroethene	0.50U		183	0.50		100				We at		100		9 3 2	200	192.0	1				120	ı
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50U			0.50		10000									200						1500	ı
Acetone	5.0U	J	CD	5.0		73.0													1			ı
Carbon Disulfide	0.50U			0.50			100 Dec															ı
Methyl Acetate	0.50U	J	D	0.50		1000			1.35													ı
Methylene Chloride	0.61U	J	BD	0.50			F155250															1
trans-1,2-Dichloroethene	0.50U			0.50	300		100 mg	P. Cont.	1										DOM:			1
Methyl tert-Butyl Ether	0.50U			0.50														12.50				ı
1,1-Dichloroethane	0.50U		1	0.50			1997										1					1
cis-1,2-Dichloroethene	0.50U			0.50	130.5										100							1
2-Butanone	5.0U	J	C	5.0					1			1			1							1
Bromochloromethane	0.50U			0.50			1000															ı
Chloroform	0.50U			0.50		213			100			100			1			1				1
1,1,1-Trichloroethane	0.50U			0.50	31963	3600	F-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A		DOM												1000	ı
Cyclohexane	0.50U	100	4200	0.50			THE T		5			42	E. A.		13.33				Sec. Sec.	1	33.3	1
Carbon Tetrachloride	0.50U			0.50		1																1
Benzene	0.50U		100	0.50	1000	-573					6	-			7 80						\$ 40 PM	ı
1,2-Dichloroethane	0.50U			0.50		1000											1 1000					1
Trichloroethene	0.50U		13.3	0.50	100													1	100		183	ı
Methylcyclohexane	0.50U			0.50																		1
1,2-Dichloropropane	0.50U			0.50				3 3	100							E APS		10035				1
Bromodichloromethane	0.50U			0.50																		1
cis-1,3-Dichloropropene	0.50U		10	0.50	0.00			1 1 1 1 1 1				183		10								ı
4-Methyl-2-pentanone	5.0U	J	E	5.0																		1
Toluene	0.50U			0.50		The second	(多)		14 15				123.44	3	133			1				
trans-1,3-Dichloropropene	0.50U		100	0.50					1555													4
1,1,2-Trichloroethane	0.50U			0.50					176							100						
Tetrachloroethene	0.50U			0.50	1					1000		1										1
2-Hexanone	5.0U	933	1	5.0			1000	1 1 2 2	100		1			1 531		10.5	1 10					
Dibromochloromethane	0.50U	138.79		0.50	1000		The same		15.50				100 M			1000	7 8 8					1
1,2-Dibromoethane	0.50U			0.50		1			1300	100	1			A STATE	1			196	100	1960		

ANALYTICAL RESULTS

Case No.: 31519

SDG No.: Y0SJ2

Revised Tier 3 Table 1A

Site: CONTINENTAL HEAT TREATING

Lab: A4 SCIENTIFIC INC.

Reviewer: Santiago Lee, ESAT/LDC

Revision Date : July 23, 2003

QUALIFIED DATA
Concentration in ug/L

Analysis Type: Low Level Water Samples

For Volatiles

Station Location : Sample ID : Collection Date : Dilution Factor :	Storage Blank VHBLK01	(		CRQL																	
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
Chlorobenzene	0.50U	12.3	1	0.50				72	10.3	Programme and the second		1.0	100				180				
Ethylbenzene	0.50U		100.00	0.50																	
Xylenes (total)	0.50U			0.50											1						
Styrene	0.50U			0.50																	
Bromoform	0.50U			0.50																1	
Isopropylbenzene	0.50U		10173	0.50																	
1,1,2,2-Tetrachloroethane	0.50U			0.50															11		
1,3-Dichlorobenzene	0.50U			0.50																	
1,4-Dichlorobenzene	0.50U		1000	0.50		70.68			12.0			1									THE M
1,2-Dichlorobenzene	0.50U			0.50																The Late	
1,2-Dibromo-3-chloropropane	0.50U		7.18	0.50																	
1,2,4-Trichlorobenzene	0.50U			0.50					1				Page 1	12.73				1		1	
1,2,3-Trichlorobenzene	0.50U	# 27	3	0.50												14 M. P.		4 19			

Val - Validity. Refer to Data Qualifiers in Table 1B.

Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.

CRQL - Contract Required Quantitation Llmit, N/A - Not Applicable, NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs

FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample